

## NOTES FOR SESSION LEADERS

### Urban Atmospheric Observatory (UAO) Planning Meeting 19 Feb 2004

This memo provides instructions and guidelines to session leaders for our planning workshop this Feb 23-24 at NASA Goddard Institute of Space Sciences (GISS). These instructions will also benefit persons who join different sessions. Our intent is that this will be a working meeting from which a science and operations plan will quickly evolve.

Bob Bornstein and I have developed an agenda that focuses on the primary scales and issues related to both the development of an observatory and to organize our thinking for intensive studies in midtown NYC. UAO is more than a testbed, it is meant to be a tool to support emergency management. We must meet science goals AND provide support for DHS, NYC Office of Emergency Management (OEM). Thus our thinking must go beyond the series of model validation, transport & diffusion exercises in years past. As a permanent facility we can contribute to global megacity issues related to climate change, pollution control (or non-control) and related global issues.

We have divided our project into four sessions (scales) and asked key persons to lead these groups:

1. Mesoscale (Warner)
2. Microscale (Brown)
3. Real-time data & emergency response (Lioy)
4. Intensive Operation Periods (IOPs) (Hanna)

incl: Madison Square Garden 2004 & 2005.

There is considerable overlap of course, and we all have issues of definition. But these seem to capture the philosophy and the goals of an observatory that can serve the needs for future research. Bob Bornstein put it at our last workshop: "We have the opportunity to save lives and have fun doing it."

Each of the session leaders, listed above, is asked to do the following:

- (a) Consider the list of topics and make suggestions.

- (b) Be prepared to give a 15 minute overview for your session.
- (c) Lead the breakout sessions and take good notes.
- (d) Provide us with notes, figures, etc. for a science plan.

Over the month after the meeting we will publish a UAO science plan that covers a strategy for the future and specifically supports the Madison Square Garden studies in 2004 & 2005 (MSG-04 and MSG-05). Session leaders will be co-authors in this document and all subsequent publications that evolve.

The strength of UAO depends on its incredibly strong scientific foundation. Your support will make or break this exciting venture.

### **Special Instructions to Session Leaders**

1. Foremost UAO goal of this meeting: plan *details of MSG04*
2. Secondary UAO goals of this meeting: *longer range UAO goals* and outline of MSG05
3. Discussion topics of each working group are listed above. Please send me your ideas on how to restate any of these topics
4. For you Mon AM, 30 min power-point plenary presentations, you should review why these topics are important, discuss how you will lead your working group, and ask for suggestions on your topics from the entire group.
5. During each of the two break-out session, someone in your group should take (power point and word) notes, you should discuss and flesh out the topics of your group, and you should prepare the next power-point plenary summary report. If you will leave before the second plenary summary session, identify someone to make the power-point presentation for you. I will suggest that each workshop attendee could bring one or two power-point slides on their own possible contributions for possible (your call) inclusion in your group report.
6. The four final (power point and word) presentations will be combined into a workshop report and a UAO Science Plan
7. One product from the session discussions, as simple as it seems, will be to firmly decide key terms and standards. For example, time keeping standards, units, and terms such as dispersion = transport + diffusion.

